

# SEQUENCE LISTING

<110> Matti Sallberg

<120> LIGAND/RECEPTOR SPECIFICITY EXCHANGERS  
THAT REDIRECT ANTIBODIES TO RECEPTORS ON A PATHOGEN

<130> TRIPEP.007CP3C1

<150> 09/664,945

<151> 2000-09-19

<150> 09/532,106

<151> 2000-03-21

<150> 09/246,258

<151> 1999-02-08

<150> 08/737,085

<151> 1996-12-27

<150> PCT/SE 95/00468

<151> 1995-04-27

<150> SE 9401460

<151> 1994-04-28

<160> 105

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 18

<212> PRT

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<220>

<223> Specificity domain peptide

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Tyr Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys Gln Ala Gly

1

5

10

15

Asp Val

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<212> PRT

<213> Artificial Sequence

<220>

<223> Specificity domain peptide

<400> 2  
Met Ser Trp Ser Leu His Pro Arg Asn Leu Ile Leu Tyr Phe Tyr Ala  
1 5 10 15  
Leu Leu Phe Leu  
20

<210> 3  
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<213> Artificial Sequence

<220>  
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<400> 3  
Ile Leu Tyr Phe Tyr Ala Leu Leu Phe Leu Ser Thr Cys Val Ala Tyr  
1 5 10 15  
Val Ala Thr

<210> 4  
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<400> 4  
Ser Ser Thr Cys Val Ala Tyr Val Ala Thr Arg Asp Asn Cys Cys Ile  
1 5 10 15  
Leu Asp Glu Arg  
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<400> 5  
Arg Asp Asn Cys Cys Ile Leu Asp Glu Arg Phe Gly Ser Tyr Cys Pro  
1 5 10 15  
Thr Thr Cys Gly  
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<210> 6  
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<212> PRT  
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<400> 6  
Phe Gly Ser Tyr Cys Pro Thr Thr Cys Gly Ile Ala Asp Phe Leu Ser  
1 5 10 15  
Thr Tyr Gln Thr  
20

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<400> 7  
Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp Leu  
1 5 10 15  
Gln Ser Leu Glu  
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<400> 8  
Lys Val Asp Lys Asp Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val  
1 5 10 15  
Glu Asn Lys Thr  
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<210> 9  
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<400> 9  
Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser Glu Val Lys Gln Leu  
1 5 10 15  
Ile Lys Ala Ile

20

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<400> 10  
Ser Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro  
1 5 10 15  
Asp Glu Ser Ser  
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<220>  
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<400> 11  
Gln Leu Thr Tyr Asn Pro Asp Glu Ser Ser Lys Pro Asn Met Ile Asp  
1 5 10 15  
Ala Ala Thr Leu  
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<400> 12  
Lys Pro Asn Met Ile Asp Ala Ala Thr Leu Lys Ser Arg Ile Met Leu  
1 5 10 15  
Glu Glu Ile Met  
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<400> 13

Lys Ser Arg Ile Met Leu Glu Glu Ile Met Lys Tyr Glu Ala Ser Ile  
1 5 10 15  
Leu Thr His Asp  
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<210> 14

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Specificity domain peptide

<400> 14

Lys Tyr Glu Ala Ser Ile Leu Thr His Asp Ser Ser Ile Arg Tyr Leu  
1 5 10 15  
Gln Glu Ile Tyr  
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<400> 15

Ser Ser Ile Arg Tyr Leu Gln Glu Ile Tyr Asn Ser Asn Asn Gln Lys  
1 5 10 15  
Ile Val Asn Leu  
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<400> 16

Asn Ser Asn Asn Gln Lys Ile Val Asn Leu Lys Glu Lys Val Ala Gln  
1 5 10 15  
Leu Glu Ala Gln  
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<210> 17

<211> 20

<212> PRT  
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<400> 17  
Cys Gln Glu Pro Cys Lys Asp Thr Val Gln Ile His Asp Ile Thr Gly  
1 5 10 15  
Lys Asp Cys Gln  
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<210> 18  
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<220>  
<223> Specificity domain peptide

<400> 18  
Ile His Asp Ile Thr Gly Lys Asp Cys Gln Asp Ile Ala Asn Lys Gly  
1 5 10 15  
Ala Lys Gln Ser  
20

<210> 19  
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<220>  
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<400> 19  
Asp Ile Ala Asn Lys Gly Ala Lys Gln Ser Gly Leu Tyr Phe Ile Lys  
1 5 10 15  
Pro Leu Lys Ala  
20

<210> 20  
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<400> 20  
Gly Leu Tyr Phe Ile Lys Pro Leu Lys Ala Asn Gln Gln Phe Leu Val  
1 5 10 15  
Tyr Cys Glu Ile

<210> 21  
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<400> 21  
 Asn Gln Gln Phe Leu Val Tyr Cys Glu Ile Asp Gly Ser Gly Asn Gly  
 1 5 10 15  
 Trp Thr Val Phe  
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<210> 22  
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<400> 22  
 Asp Gly Ser Gly Asn Gly Trp Thr Val Phe Gln Lys Arg Leu Asp Gly  
 1 5 10 15  
 Ser Val Asp Phe  
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<210> 23  
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 <212> PRT  
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<220>  
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<400> 23  
 Gln Lys Arg Leu Asp Gly Ser Val Asp Phe Lys Lys Asn Trp Ile Gln  
 1 5 10 15  
 Tyr Lys Glu Gly  
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<210> 24  
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<220>  
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<400> 24

Lys Lys Asn Trp Ile Gln Tyr Lys Glu Gly Phe Gly His Leu Ser Pro  
1 5 10 15  
Thr Gly Thr Thr  
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<210> 25

<211> 20

<212> PRT

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<223> Specificity domain peptide

<400> 25

Phe Gly His Leu Ser Pro Thr Gly Thr Thr Glu Phe Trp Leu Gly Asn  
1 5 10 15  
Glu Lys Ile His  
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<210> 26

<211> 20

<212> PRT

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<220>

<223> Specificity domain peptide

<400> 26

Glu Phe Trp Leu Gly Asn Glu Lys Ile His Leu Ile Ser Thr Gln Ser  
1 5 10 15  
Ala Ile Pro Tyr  
20

<210> 27

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<212> PRT

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<220>

<223> Specificity domain peptide

<400> 27

Leu Ile Ser Thr Gln Ser Ala Ile Pro Tyr Ala Leu Arg Val Glu Leu  
1 5 10 15  
Glu Asp Trp Asn  
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<210> 28

<211> 20



<212> PRT  
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 <220>  
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 <400> 28  
 Ala Leu Arg Val Glu Leu Glu Asp Trp Asn Gly Arg Thr Ser Thr Ala  
 1 5 10 15  
 Asp Tyr Ala Met  
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<210> 29  
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 <400> 29  
 Gly Arg Thr Ser Thr Ala Asp Tyr Ala Met Phe Lys Val Gly Pro Glu  
 1 5 10 15  
 Ala Asp Lys Tyr  
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 Phe Lys Val Gly Pro Glu Ala Asp Lys Tyr Arg Leu Thr Tyr Ala Tyr  
 1 5 10 15  
 Phe Ala Gly Gly  
 20

<210> 31  
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 <400> 31  
 Arg Leu Thr Tyr Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp Ala Phe  
 1 5 10 15  
 Asp Gly Phe Asp

<210> 32  
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<400> 32  
 Asp Ala Gly Asp Ala Phe Asp Gly Phe Asp Phe Gly Asp Asp Pro Ser  
 1 5 10 15  
 Asp Lys Phe Phe  
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<210> 33  
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<400> 33  
 Phe Gly Asp Asp Pro Ser Asp Lys Phe Phe Thr Ser His Asn Gly Met  
 1 5 10 15  
 Gln Phe Ser Thr  
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<210> 34  
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<400> 34  
 Thr Ser His Asn Gly Met Gln Phe Ser Thr Trp Asp Asn Asp Asn Asp  
 1 5 10 15  
 Lys Phe Glu Gly  
 20

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<400> 35  
 Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys Ala Glu Gln Asp  
 1 5 10 15  
 Gly Ser Gly Trp  
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<210> 36  
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<220>  
 <223> Specificity domain peptide

<400> 36  
 Asn Cys Ala Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His  
 1 5 10 15  
 Ala Gly His Leu  
 20

<210> 37  
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 <212> PRT  
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<220>  
 <223> Specificity domain peptide

<400> 37  
 Trp Met Asn Lys Cys His Ala Gly His Leu Asn Gly Val Tyr Tyr Gln  
 1 5 10 15  
 Gly Gly Thr Tyr  
 20

<210> 38  
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 <223> Specificity domain peptide

<400> 38  
 Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser Thr Pro  
 1 5 10 15  
 Asn Gly Tyr Asp  
 20

<210> 39  
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<212> PRT  
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<223> Specificity domain peptide

<400> 39  
Ser Lys Ala Ser Thr Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala  
1 5 10 15  
Thr Trp Lys Thr  
20

<210> 40  
<211> 20  
<212> PRT  
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<400> 40  
Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr Arg Trp Tyr Ser Met Lys  
1 5 10 15  
Lys Thr Thr Met  
20

<210> 41  
<211> 20  
<212> PRT  
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<220>  
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<400> 41  
Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn  
1 5 10 15  
Arg Leu Thr Ile  
20

<210> 42  
<211> 27  
<212> PRT  
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<220>  
<223> Specificity domain peptide

<400> 42  
Lys Ile Ile Pro Phe Asn Arg Leu Thr Ile Gly Glu Gly Gln Gln His  
1 5 10 15  
His Leu Gly Gly Ala Lys Gln Ala Gly Asp Val

<210> 43  
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 <212> PRT  
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<220>  
 <223> Antigenic domain peptide

<400> 43  
 Gly Leu Tyr Ser Ser Ile Trp Leu Ser Pro Gly Arg Ser Tyr Phe Glu  
 1 5 10 15  
 Thr

<210> 44  
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<220>  
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<400> 44  
 Tyr Thr Asp Ile Lys Tyr Asn Pro Phe Thr Asp Arg Gly Glu Gly Asn  
 1 5 10 15  
 Met

<210> 45  
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<400> 45  
 Asp Gln Asn Ile His Met Asn Ala Arg Leu Leu Ile Arg Ser Pro Phe  
 1 5 10 15  
 Thr

<210> 46  
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 <212> PRT  
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<220>  
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<400> 46

Leu Ile Arg Ser Pro Phe Thr Asp Pro Gln Leu Leu Val His Thr Asp  
1 5 10 15  
Pro

<210> 47

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 47

Gln Lys Glu Ser Leu Leu Phe Pro Pro Val Lys Leu Leu Arg Arg Val  
1 5 10 15  
Pro

<210> 48

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<212> PRT

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<220>

<223> Antigenic domain peptide

<400> 48

Pro Ala Leu Thr Ala Val Glu Thr Gly Ala Thr  
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<210> 49

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<212> PRT

<213> Artificial Sequence

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<223> Antigenic domain peptide

<400> 49

Ser Thr Leu Val Pro Glu Thr Thr  
1 5

<210> 50

<211> 13

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<223> Antigenic domain peptide

<400> 50

Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu  
1 5 10

<210> 51

<211> 9

<212> PRT

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<220>

<223> Antigenic domain peptide

<400> 51

Glu Ile Pro Ala Leu Thr Ala Val Glu  
1 5

<210> 52

<211> 10

<212> PRT

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<223> Antigenic domain peptide

<400> 52

Leu Glu Asp Pro Ala Ser Arg Asp Leu Val  
1 5 10

<210> 53

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 53

His Arg Gly Gly Pro Glu Glu Phe  
1 5

<210> 54

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 54

His Arg Gly Gly Pro Glu Glu  
1 5

<210> 55

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 55

Val Leu Ile Cys Gly Glu Asn Thr Val Ser Arg Asn Tyr Ala Thr His  
1 5 10 15  
Ser

<210> 56

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 56

Lys Ile Asn Thr Met Pro Pro Phe Leu Asp Thr Glu Leu Thr Ala Pro  
1 5 10 15  
Ser

<210> 57

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 57

Pro Asp Glu Lys Ser Gln Arg Glu Ile Leu Leu Asn Lys Ile Ala Ser  
1 5 10 15  
Tyr

<210> 58

<211> 17

<212> PRT

<213> Artificial Sequence

<220>



<223> Antigenic domain peptide

<400> 58

Thr Ala Thr Thr Thr Thr Tyr Ala Tyr Pro Gly Thr Asn Arg Pro Pro  
1 5 10 15  
Val

<210> 59

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Antigenic domain peptide

<400> 59

Ser Thr Pro Leu Pro Glu Thr Thr  
1 5

<210> 60

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 60

Tyr Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys Gln Ala Gly  
1 5 10 15  
Asp Val His Arg Gly Gly Pro Glu Glu Phe  
20 25

<210> 61

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 61

Tyr Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys Gln Ala Gly  
1 5 10 15  
Asp Val His Arg Gly Gly Pro Glu Glu  
20 25

<210> 62

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 62

Tyr	Gly	Glu	Gly	Gln	Gln	His	His	Leu	Gly	Gly	Ala	Lys	Gln	Ala	Gly
1				5					10					15	
Asp	Val	Ser	Thr	Pro	Leu	Pro	Glu	Thr	Thr						
			20					25							

<210> 63

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Ligand/Receptor specificity exchanger peptide

<400> 63

Met	Ser	Trp	Ser	Leu	His	Pro	Arg	Asn	Leu	Ile	Leu	Tyr	Phe	Tyr	Ala
1				5				10						15	
Leu	Leu	Phe	Leu	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 64

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 64

Ile	Leu	Tyr	Phe	Tyr	Ala	Leu	Leu	Phe	Leu	Ser	Thr	Cys	Val	Ala	Tyr
1				5					10					15	
Val	Ala	Thr	His	Arg	Gly	Gly	Pro	Glu	Glu						
			20					25							

<210> 65

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 65

Ser	Ser	Thr	Cys	Val	Ala	Tyr	Val	Ala	Thr	Arg	Asp	Asn	Cys	Cys	Ile
1				5					10					15	
Leu	Asp	Glu	Arg	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 66  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 66  
Arg Asp Asn Cys Cys Ile Leu Asp Glu Arg Phe Gly Ser Tyr Cys Pro  
1 5 10 15  
Thr Thr Cys Gly His Arg Gly Gly Pro Glu Glu  
20 25

<210> 67  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 67  
Phe Gly Ser Tyr Cys Pro Thr Thr Cys Gly Ile Ala Asp Phe Leu Ser  
1 5 10 15  
Thr Tyr Gln Thr His Arg Gly Gly Pro Glu Glu  
20 25

<210> 68  
<211> 27  
<212> PRT  
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<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 68  
Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp Leu  
1 5 10 15  
Gln Ser Leu Glu His Arg Gly Gly Pro Glu Glu  
20 25

<210> 69  
<211> 27  
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<223> Ligand/Receptor specificity exchanger peptide

<400> 69  
 Lys Val Asp Lys Asp Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val  
 1 5 10 15  
 Glu Asn Lys Thr His Arg Gly Gly Pro Glu Glu  
 20 25

<210> 70  
 <211> 27  
 <212> PRT  
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<220>  
 <223> Ligand/Receptor specificity exchanger peptide

<400> 70  
 Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser Glu Val Lys Gln Leu  
 1 5 10 15  
 Ile Lys Ala Ile His Arg Gly Gly Pro Glu Glu  
 20 25

<210> 71  
 <211> 27  
 <212> PRT  
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<220>  
 <223> Ligand/Receptor specificity exchanger peptide

<400> 71  
 Ser Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro  
 1 5 10 15  
 Asp Glu Ser Ser His Arg Gly Gly Pro Glu Glu  
 20 25

<210> 72  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Ligand/Receptor specificity exchanger peptide

<400> 72  
 Gln Leu Thr Tyr Asn Pro Asp Glu Ser Ser Lys Pro Asn Met Ile Asp  
 1 5 10 15  
 Ala Ala Thr Leu His Arg Gly Gly Pro Glu Glu  
 20 25

<210> 73  
 <211> 27  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 73

Lys	Pro	Asn	Met	Ile	Asp	Ala	Ala	Thr	Leu	Lys	Ser	Arg	Ile	Met	Leu
1				5					10					15	
Glu	Glu	Ile	Met	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 74

<211> 27

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<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 74

Lys	Ser	Arg	Ile	Met	Leu	Glu	Glu	Ile	Met	Lys	Tyr	Glu	Ala	Ser	Ile
1				5					10					15	
Leu	Thr	His	Asp	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 75

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 75

Lys	Tyr	Glu	Ala	Ser	Ile	Leu	Thr	His	Asp	Ser	Ser	Ile	Arg	Tyr	Leu
1				5					10					15	
Gln	Glu	Ile	Tyr	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 76

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 76

Ser	Ser	Ile	Arg	Tyr	Leu	Gln	Glu	Ile	Tyr	Asn	Ser	Asn	Asn	Gln	Lys
1				5					10					15	
Ile	Val	Asn	Leu	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 77  
<211> 27  
<212> PRT  
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<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 77  
Asn Ser Asn Asn Gln Lys Ile Val Asn Leu Lys Glu Lys Val Ala Gln  
1 5 10 15  
Leu Glu Ala Gln His Arg Gly Gly Pro Glu Glu  
20 25

<210> 78  
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<212> PRT  
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<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 78  
Cys Gln Glu Pro Cys Lys Asp Thr Val Gln Ile His Asp Ile Thr Gly  
1 5 10 15  
Lys Asp Cys Gln His Arg Gly Gly Pro Glu Glu  
20 25

<210> 79  
<211> 27  
<212> PRT  
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<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 79  
Ile His Asp Ile Thr Gly Lys Asp Cys Gln Asp Ile Ala Asn Lys Gly  
1 5 10 15  
Ala Lys Gln Ser His Arg Gly Gly Pro Glu Glu  
20 25

<210> 80  
<211> 27  
<212> PRT  
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<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 80

Asp Ile Ala Asn Lys Gly Ala Lys Gln Ser Gly Leu Tyr Phe Ile Lys  
1 5 10 15  
Pro Leu Lys Ala His Arg Gly Gly Pro Glu Glu  
20 25

<210> 81

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 81

Gly Leu Tyr Phe Ile Lys Pro Leu Lys Ala Asn Gln Gln Phe Leu Val  
1 5 10 15  
Tyr Cys Glu Ile His Arg Gly Gly Pro Glu Glu  
20 25

<210> 82

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 82

Asn Gln Gln Phe Leu Val Tyr Cys Glu Ile Asp Gly Ser Gly Asn Gly  
1 5 10 15  
Trp Thr Val Phe His Arg Gly Gly Pro Glu Glu  
20 25

<210> 83

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 83

Asp Gly Ser Gly Asn Gly Trp Thr Val Phe Gln Lys Arg Leu Asp Gly  
1 5 10 15  
Ser Val Asp Phe His Arg Gly Gly Pro Glu Glu  
20 25

<210> 84

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 84

Gln	Lys	Arg	Leu	Asp	Gly	Ser	Val	Asp	Phe	Lys	Lys	Asn	Trp	Ile	Gln
1			5					10						15	
Tyr	Lys	Glu	Gly	His	Arg	Gly	Gly	Pro	Glu	Glu					
		20						25							

<210> 85

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 85

Lys	Lys	Asn	Trp	Ile	Gln	Tyr	Lys	Glu	Gly	Phe	Gly	His	Leu	Ser	Pro
1			5					10					15		
Thr	Gly	Thr	Thr	His	Arg	Gly	Gly	Pro	Glu	Glu					
		20						25							

<210> 86

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 86

Phe	Gly	His	Leu	Ser	Pro	Thr	Gly	Thr	Thr	Glu	Phe	Trp	Leu	Gly	Asn
1			5					10					15		
Glu	Lys	Ile	His	His	Arg	Gly	Gly	Pro	Glu	Glu					
		20						25							

<210> 87

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 87

Glu	Phe	Trp	Leu	Gly	Asn	Glu	Lys	Ile	His	Leu	Ile	Ser	Thr	Gln	Ser
1			5					10					15		
Ala	Ile	Pro	Tyr	His	Arg	Gly	Gly	Pro	Glu	Glu					
		20						25							



<210> 88  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 88  
Leu Ile Ser Thr Gln Ser Ala Ile Pro Tyr Ala Leu Arg Val Glu Leu  
1 5 10 15  
Glu Asp Trp Asn His Arg Gly Gly Pro Glu Glu  
20 25

<210> 89  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 89  
Ala Leu Arg Val Glu Leu Glu Asp Trp Asn Gly Arg Thr Ser Thr Ala  
1 5 10 15  
Asp Tyr Ala Met His Arg Gly Gly Pro Glu Glu  
20 25

<210> 90  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 90  
Gly Arg Thr Ser Thr Ala Asp Tyr Ala Met Phe Lys Val Gly Pro Glu  
1 5 10 15  
Ala Asp Lys Tyr His Arg Gly Gly Pro Glu Glu  
20 25

<210> 91  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 91

Phe Lys Val Gly Pro Glu Ala Asp Lys Tyr Arg Leu Thr Tyr Ala Tyr  
1 5 10 15  
Phe Ala Gly Gly His Arg Gly Gly Pro Glu Glu  
20 25

<210> 92

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 92

Arg Leu Thr Tyr Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp Ala Phe  
1 5 10 15  
Asp Gly Phe Asp His Arg Gly Gly Pro Glu Glu  
20 25

<210> 93

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 93

Asp Ala Gly Asp Ala Phe Asp Gly Phe Asp Phe Gly Asp Asp Pro Ser  
1 5 10 15  
Asp Lys Phe Phe His Arg Gly Gly Pro Glu Glu  
20 25

<210> 94

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 94

Phe Gly Asp Asp Pro Ser Asp Lys Phe Phe Thr Ser His Asn Gly Met  
1 5 10 15  
Gln Phe Ser Thr His Arg Gly Gly Pro Glu Glu  
20 25

<210> 95

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 95

Thr	Ser	His	Asn	Gly	Met	Gln	Phe	Ser	Thr	Trp	Asp	Asn	Asp	Asn	Asp
1			5					10					15		
Lys	Phe	Glu	Gly	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 96

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 96

Trp	Asp	Asn	Asp	Asn	Asp	Lys	Phe	Glu	Gly	Asn	Cys	Ala	Glu	Gln	Asp
1			5					10					15		
Gly	Ser	Gly	Trp	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 97

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 97

Asn	Cys	Ala	Glu	Gln	Asp	Gly	Ser	Gly	Trp	Trp	Met	Asn	Lys	Cys	His
1			5					10					15		
Ala	Gly	His	Leu	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 98

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Ligand/Receptor specificity exchanger peptide

<400> 98

Trp	Met	Asn	Lys	Cys	His	Ala	Gly	His	Leu	Asn	Gly	Val	Tyr	Tyr	Gln
1			5					10					15		
Gly	Gly	Thr	Tyr	His	Arg	Gly	Gly	Pro	Glu	Glu					
			20					25							

<210> 99  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 99  
Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser Thr Pro  
1 5 10 15  
Asn Gly Tyr Asp His Arg Gly Gly Pro Glu Glu  
20 25

<210> 100  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 100  
Ser Lys Ala Ser Thr Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala  
1 5 10 15  
Thr Trp Lys Thr His Arg Gly Gly Pro Glu Glu  
20 25

<210> 101  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 101  
Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr Arg Trp Tyr Ser Met Lys  
1 5 10 15  
Lys Thr Thr Met His Arg Gly Gly Pro Glu Glu  
20 25

<210> 102  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Ligand/Receptor specificity exchanger peptide

<400> 102  
 Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn  
 1 5 10 15  
 Arg Leu Thr Ile His Arg Gly Gly Pro Glu Glu  
 20 25

<210> 103  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Ligand/Receptor specificity exchanger peptide

<400> 103  
 Lys Ile Ile Pro Phe Asn Arg Leu Thr Ile Gly Glu Gly Gln Gln His  
 1 5 10 15  
 His Leu Gly Gly Ala Lys Gln Ala Gly Asp Val His Arg Gly Gly Pro  
 20 25 30  
 Glu Glu

<210> 104  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Integrin specific ligand/receptor specificity  
 exchanger peptide

<400> 104  
 Gly Arg Gly Asp Ser Pro His Arg Gly Gly Pro Glu Glu  
 1 5 10

<210> 105  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Integrin specific ligand/receptor specificity  
 exchanger peptide

<400> 105  
 Trp Ser Arg Gly Asp Trp His Arg Gly Gly Pro Glu Glu  
 1 5 10